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Team Control Number

74031

Problem Chosen

C

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**2018
MCM/ICM
Summary Sheet**

(Your team's summary should be included as the first page of your electronic submission.)

Type a summary of your results on this page. Do not include the name of your school, advisor, or team members on this page.

Summary

Energy production and usage are a major portion of any economy. In order to use energy efficiently but reasonably, we build a model about energy production.

Firstly, we carefully look through the data in the attachment. Due to some redundant data in the attachment, we decide to classify the energy kind into eight kinds, including petroleum, natural gas, coal, which will give us insights about the problem. In this process, the missing or unreasonable data are replaced by the responded median.

Secondly,

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1 Introduction

1.1 Problem Background

Here is the problem background ...

Two major problems are discussed in this paper, which are:

- Doing the first thing.
- Doing the second thing.

1.2 Literature Review

A literatrue[1] say something about this problem ...

1.3 Our work

We do such things ...

1. We do ...
2. We do ...
3. We do ...

2 Preparation of the Models

2.1 Assumptions

2.2 Notations

The primary notations used in this paper are listed in **Table 1**.

Table 1: Notations

Symbol	Definition
A	the first one
b	the second one
α	the last one

3 The Models

3.1 Model 1

3.1.1 Detail 1 about Model 1

$$e^{i\theta} = \cos \theta + i \sin \theta. \quad (1)$$

4 Strengths and Weaknesses

4.1 Strengths

- First one ...
- Second one ...

4.2 Weaknesses

- Only one ...

References

- [1] Elisa T. Lee, Oscar T. Survival Analysis in Public Health Research. *Go.College of Public Health*, 1997(18):105-134.
- [2] Wikipedia: Proportional hazards model. 2017.11.26.
https://en.wikipedia.org/wiki/Proportional_hazards_model